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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,585	09/26/2003	Gilles Gosselin	18085.105102	8655
King & Spaldi	7590 04/09/200° ng. LLP		EXAMINER ,	
191 Peachtree Street, N.E. 45th Floor Atlanta, GA 30303			CRANE, LAWRENCE E	
			ART UNIT	PAPER NUMBER
,			1623	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		04/09/2007	DADED	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
Office Author Occurren	10/672,585	GOSSELIN ET AL.
Office Action Summary	Examiner	Art Unit
	L. E. Crane	1623
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on <u>july 1</u> 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro	
Disposition of Claims	•	
4) Claim(s) 1-9 and 17 is/are pending in the application Papers Claim(s) 1-9 and 17 is/are pending in the application Papers Claim(s) 1-9 and 17 is/are allowed. Signature 17 is/are rejected. Claim(s) 5 is/are objected to. Claim(s) are subject to restriction and/or papers	vn from consideration. election requirement.	
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 26 September 2003 is/a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Examiner	re: a) \square accepted or b) \boxtimes object drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		*
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	

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Claims 12 and 14-16 have been cancelled, claims 1, 3-4, 7-9, 12 and 14-16 have been amended, and new claim 17 has been added as per the amendment received July 27, 2005. No additional Information Disclosure Statements (IDSs) have been received as of the date of this Office action.

Claims 1-9 and 17 remain in the case.

Note to applicant: when a rejection refers to a claim X at line y, the line number "y" is determined from the claim as previously submitted by applicant in the most recent response including lines deleted by line through.

This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

Claims 1-9 and 17 are rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1 at lines 10-14, the process step has not been completely defined; i.e. is "B" an unprotected base, or a protected base, and if the latter, what particular protecting group or groups is/are present. The subsequent definition at lines 17 is incomplete also because the optional protection has not been defined. In addition it is very well known in the nucleoside synthesis art that unprotected bases are not preferred and that protection is essential to achieve reasonable yields. Therefore, the instant process is incomplete for failure to define the different process conditions required depending on whether protection is present or absent.

Applicant's arguments filed July 17, 2006 have been fully considered but they are not persuasive.

The reliance on functional language (e.g. "condensed") serves to conceal the chemical step or steps actually being executed. Applicant is encouraged to provide amendments wherein the actual chemical process steps are disclosed. Examiner also respectfully requests the removal of the term "appropriate" from the definitions of B' and in the last line of claim 1 because these terms incorrectly imply that the process can be conducted in the absence of protecting groups on the base and on the sugar starting compounds and the related substituent

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moieties during the initial and subsequent process steps. If this is not the case, Examiner would like to see a declaration disclosing a detailed description of how the implied "noprotecing group" process is conducted.

The preamble of claim 1 describes a process for making 3 different compounds, but the process steps only disclosed deprotection of the 2'-hydroxyl and removal of same by a deoxygenation process; the claim is incomplete. Applicant is respectfully requested to amend the preamble accordingly or to introduce the additional enabled process steps necessary to permit the other two classes of compounds to be synthesized. This request is made because the instant disclosed embodiments do <u>not</u> include making the listed products in the preamble of claim 1 directly from a protected 2'-deoxy-, 3'-deoxy- or 2', 3'-dideoxysugars as implied by the process as claimed. Therefore, the instant claim is misleading.

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new grounds of rejection.

In claim 7 at lines 1-5, the process being claimed has two flaws:

- i) said claim lacks antecedent basis in claim 1 because claim 1 does not provide for conversion of the base moiety U to the base moiety C and
- ii) the steps of particular chemical process being claimed have not been defined thereby rendering the claim incomplete.

Applicant's arguments filed July 17, 2006 have been fully considered but they are not persuasive.

Examiner notes applicant's amendments but does not see any amendments that effective address the noted problem. The instant claim remains incomplete and the instant rejection has therefore been maintained.

In claim 1 at line 9, the term "characterized in that" appears as a replacement for the normal terms of art in US practice. Since applicant has incorporated the term "further comprising" in dependent claims, examiner suggests that the term -- comprising -- needs to be incorporated herein to replace the noted term in order for the dependent claims to have proper antecedent basis and for the scope of the claimed subject matter to be clearly understood in light of US practice. See also claims 2, 4-6 and 17 wherein the same error reoccurs.

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Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new grounds of rejection.

In claim 1 at line 18, the term "such as" is indefinite because this term is suggests an unlimited number of alternatives may be assumed to be present but are not listed. Deletion is respectfully requested.

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new grounds of rejection.

In claim 8 the terms "uracil," "thymine" and "cytosine" are the names of compounds. The corresponding substituent groups found in nucleosides are typically -- 1-uracilyl --, --1-thyminyl --, and -- 1-cytosinyl --., respectively. Substitution for the compound names with the substituent names is respectfully requested. See also claims 6, 7 and 9 for the same or similar errors. Parallel amendments of the disclosure would only be considered corrections of technical errors, and would not be considered new matter.

Applicant's arguments with respect to claim 6-9 have been considered but are moot in view of the new grounds of rejection.

Claims 8-9 appear to be allowable as presently in the case.

Claims 1-7 and 17 would be allowable if rewritten or amended to overcome the rejections under 35 U.S.C. §112.

Papers related to this application may be submitted to Group 1600 via facsimile transmission (FAX). The transmission of such papers must conform with the notice published in the Official Gazette (1096 OG 30, November 15, 1989). The telephone number to FAX (unofficially) directly to Examiner's computer is 571-273-0651. The telephone number for sending an Official FAX to the PTO is 571-273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner L. E. Crane whose telephone number is **571-272-0651**. The examiner can normally be reached between 9:30 AM and 5:00 PM, Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. S. Anna Jiang, can be reached at 571-272-0627.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 receptionist whose telephone number is **571-272-1600**.

LECrane:lec 04/01/2007

L. E. Crane, Ph.D., Esq.

Patent Examiner

Technology Center 1600